

## **SECTION 01 32 33**

### **PHOTOGRAPHIC DOCUMENTATION**

#### **PART 1 – GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Stages of construction.
- B. Quality and quantity of photographs.
- C. Identification of photographs.
- D. Video recordings.
- E. Disputes, and potential claims.

##### **1.02 MEASUREMENT AND PAYMENT**

- A. Separate measurement or payment will not be made for work required under this Section. All costs in connection with the work specified herein will be considered to be included with the related item of work in the Bid Schedule of the Bid Form, or incidental to the Work.

##### **1.03 STAGES OF CONSTRUCTION**

- A. The Contractor shall take photographs at all construction milestones and at each of the following stages of construction:
  - 1. Before commencement of clearing and demolition;
  - 2. Upon completion of clearing and demolition;
  - 3. Monthly during performance of the Work; and
  - 4. Upon completion of the Work.
  - 5. Anytime a problem arises that may result in a Notice of Potential Claim and the problem can be illustrated by photographs.
- B. Furnish at least three different views or vantage points of each milestone and stage of construction. Furnish an average of 20 photographs each month until completion of the Work. Location of views shall be as approved by the Engineer.

##### **1.04 QUALITY AND QUANTITY OF PHOTOGRAPHS**

- A. All photographs shall be digital photographs stored on CD-ROM, DVD or approved other media. Digital photographs shall be in pdf, jpg or png format with the following requirements:

1. Minimum resolution: 1024 x 768 pixels.
  2. Colors: 24 Bits per Pixel.
  3. Maximum File size of 3MB.
- B. Digital photographs provided shall use the following file naming convention:

PYYMMDDLOCATIONSEQ.EXT

P = Photograph

YYMMDD = Date in Year, Month, Day format

LOCATION = (8 Characters maximum) Location taken, either by BART 3-character alpha numeric + 5, or Milepost by line designation. (e.g. M90, C40-west, A1MP32-1, etc.)

SEQ = Sequential number from 001 to 999.

EXT = File extension (e.g. pdf, jpg, or png).

- C. CD-ROM or DVD disc shall be labeled to include the Contract number and the date the photographs were taken.

## 1.05 IDENTIFICATION OF PHOTOGRAPHS

- A. The following information shall be furnished for each digital photograph in a manner approved by the Engineer.
1. Title of Contract and Contract Number;
  2. Identification of subject shown;
  3. Station point of camera and direction of view;
  4. Time and date taken.

## 1.06 VIDEO RECORDINGS

- A. The Contractor shall provide video recordings to supplement contract photographs of certain construction milestones and events as indicated herein:
1. Start of construction including clearing and demolition operations, as applicable;
  2. Highlights of all formal inspections; and
  3. Highlights of the final inspection and acceptance by the District.

- B. Video recordings shall be standard definition DVD - Video format and stored on a DVD optical disc.
- C. Video recordings shall include a complete, clearly spoken narration of the events being photographed. Also, video recordings shall include an unobtrusive time and date indicator on the film, accurately depicting the time and date when the photography was performed.
- D. The DVD disc shall be labeled with the same identifying information specified above for photographs. In addition, the narration of each recording shall lead off with this same identifying information.
- E. Individual digital video files shall use the file naming convention indicated in 1.04B, however the filename shall be modified such that the first character shall be "V" for video instead of "P".

**1.07 DISPUTES AND POTENTIAL CLAIMS:**

- A. In the event a problem arises or dispute occurs which may result in a Notice of Potential Claim under Article GC9.4.1 of the General Conditions and the problem or dispute can be illustrated by photographs and video recordings, the Contractor shall provide such photographs and video files.

**PART 2 –PRODUCTS**

Not Used

**PART 3 –EXECUTION**

Not Used

**END OF SECTION 01 32 33**